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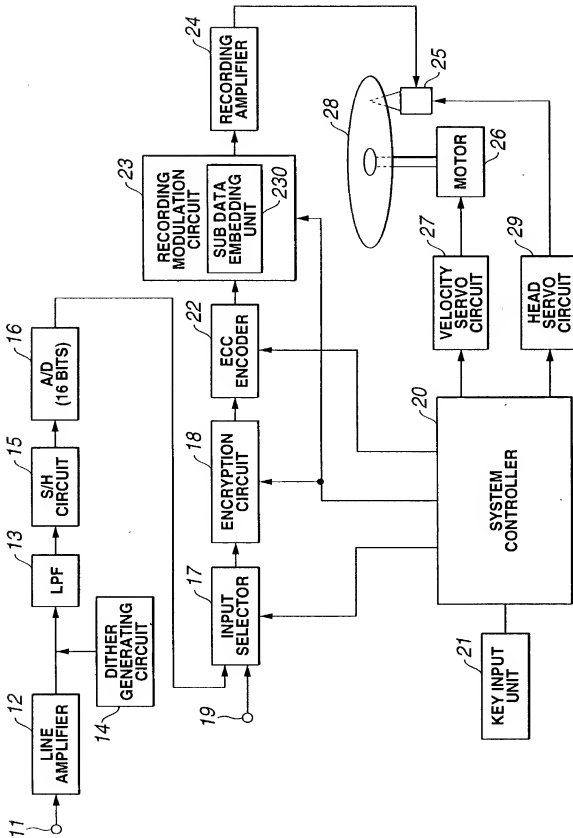


FIG.1

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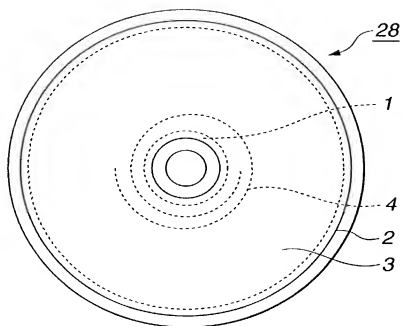


FIG. 2

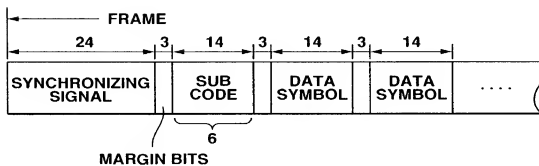


FIG. 3

| | DATA SYMBOL DA | MARGIN BITS | DATA SYMBOL DB |
|--------|----------------|----------------|----------------|
| FIG.4A | 0 0 1 | 0 0 0 | 1 0 0 |
| FIG.4B | 0 0 1 | 0 0 0 | 0 1 0 |
| FIG.4C | 0 0 1 | 0 0 0 | 0 0 1 |
| | | 0 0 1 | |
| FIG.4D | 0 1 0 | 0 0 0 | 1 0 0 |
| FIG.4E | 0 1 0 | 0 0 0 | 0 1 0 |
| | | 0 1 0 | |
| FIG.4F | 0 1 0 | 0 0 0 | 0 0 1 |
| | | 0 1 0 | |
| | | 0 0 1 | |
| FIG.4G | 1 0 0 | 0 0 0 | 0 0 1 |
| | | 1 0 0 | |
| | | 0 1 0 | |
| | | 0 0 1 | |

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FIG.5A

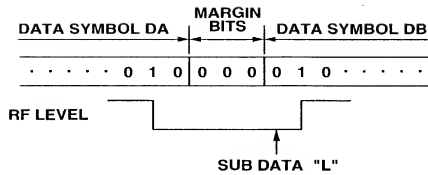


FIG.5B

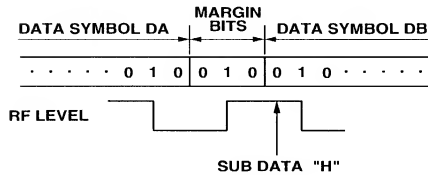


FIG.5C

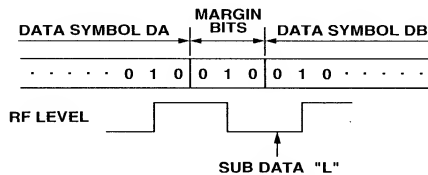
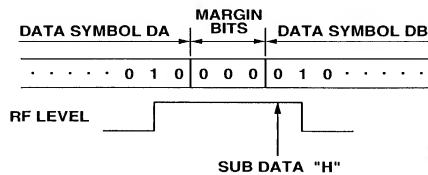


FIG.5D



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| MEDIUM TYPE (DISC TYPE) | RF LEVEL "L" | RF LEVEL "H" |
|---------------------------------|--------------|--------------|
| ROM-TYPE (REPRODUCTION ONLY) | 0 | 1 |
| RAM-TYPE (CD-R/CD-RW) | 1 | 0 |

FIG.6

| MEDIUM TYPE (DISC TYPE) | DATA PORTION FOR RECORDING SUB DATA |
|---------------------------------|--|
| ROM-TYPE (REPRODUCTION ONLY) | DATA PORTION SUCH THAT ALL-0 IS FOLLOWED BY ALL-0 IN 8-BIT DATA BEFORE EFM |
| RAM-TYPE (CD-R/CD-RW) | DATA PORTION SUCH THAT ALL-0 IS FOLLOWED BY ALL-1 IN 8-BIT DATA BEFORE EFM |

FIG.7

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| MEDIUM TYPE (DISC TYPE) | SUB CODE AREA OF EACH FRAME |
|----------------------------|-----------------------------|
| ROM-TYPE | PATTERN A |
| CD-R-TYPE | PATTERN B |
| CD-RW-TYPE | PATTERN C |

FIG.8

| MEDIUM TYPE (DISC TYPE) | SUB DATA EMBEDDING PATTERN (—→ "1" ----→ "0" |
|----------------------------|---|
| ROM-TYPE | "H" — — — — "L" ---- ---- ---- — |
| CD-R-TYPE | "H" — ---- ---- — "L" ---- — — ---- |
| CD-RW-TYPE | "H" — ---- — ---- "L" ---- — ---- — |

FIG.9

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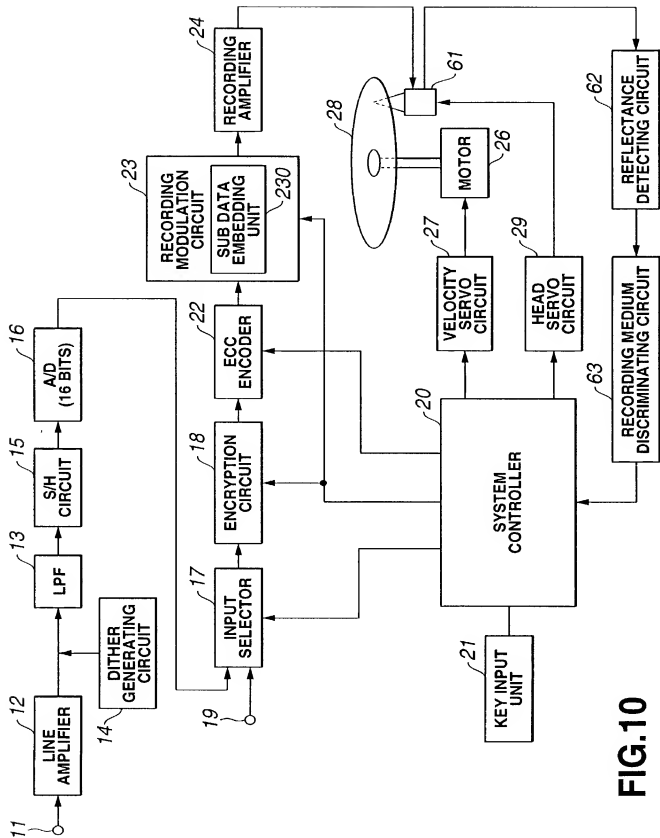


FIG.10

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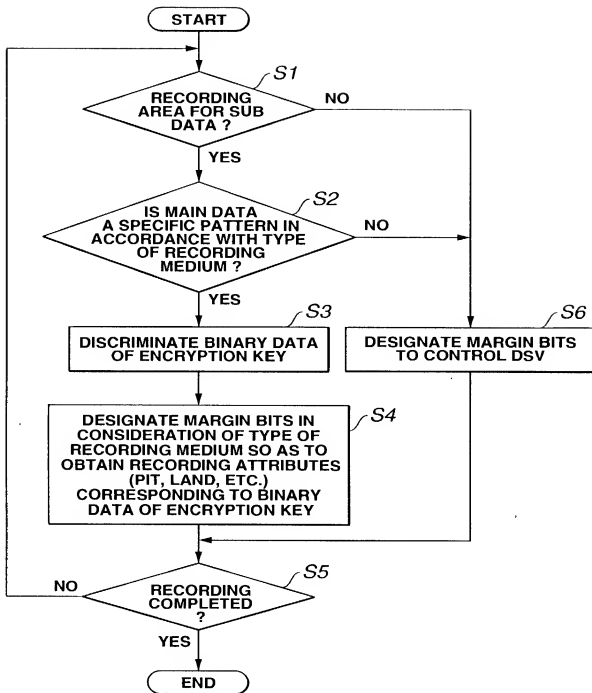


FIG.11

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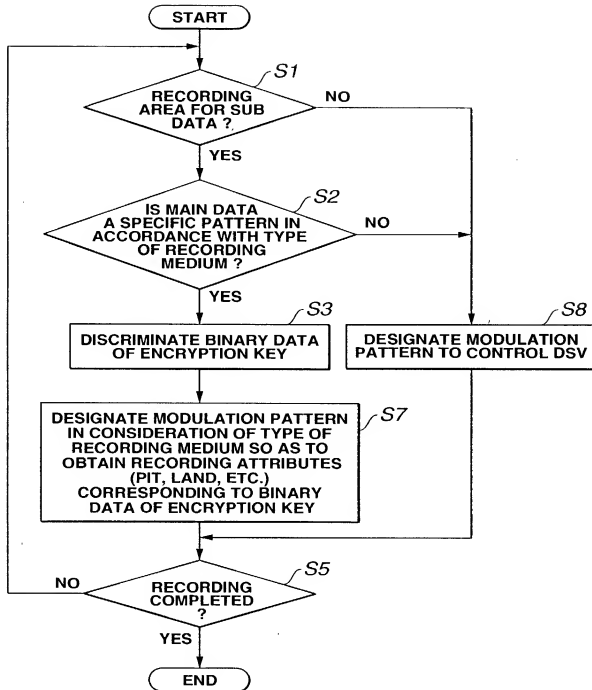


FIG.12

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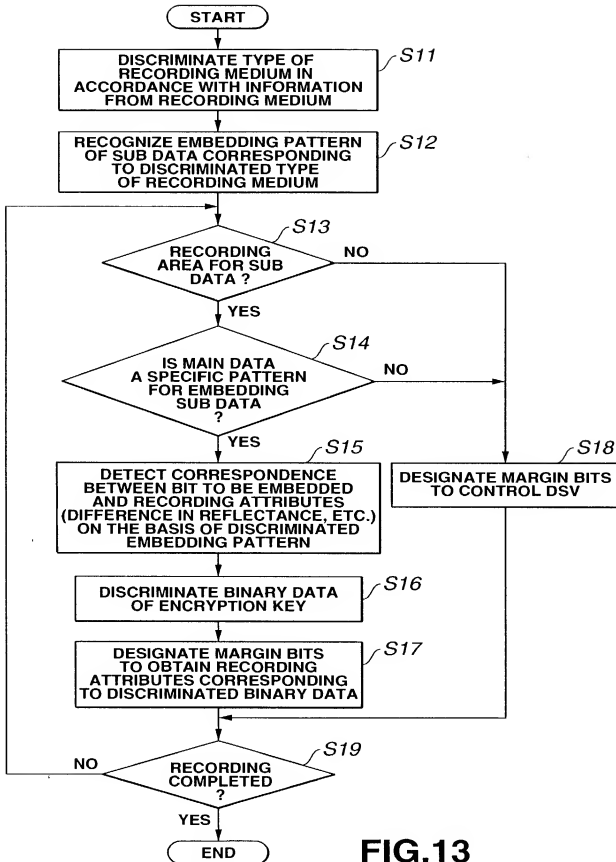


FIG.13

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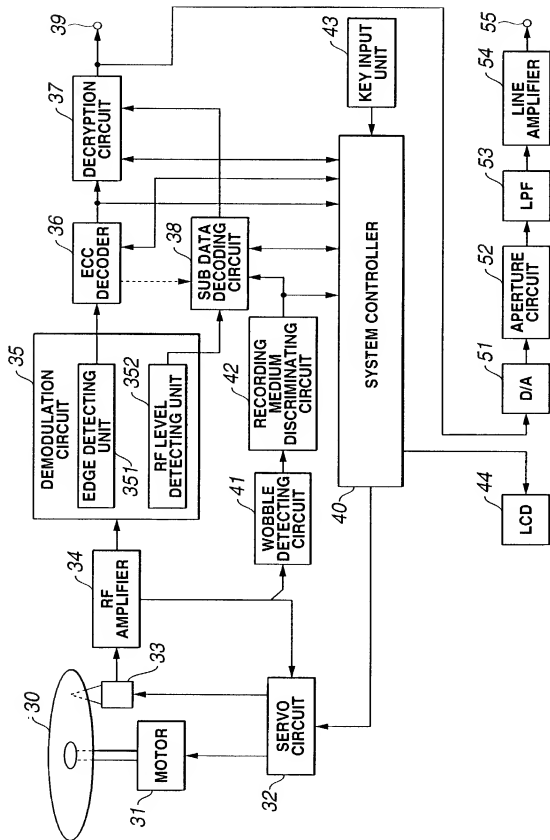


FIG. 14

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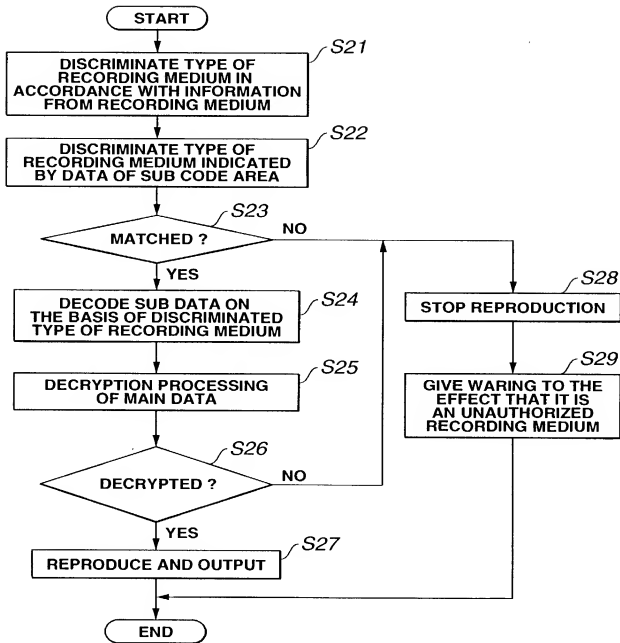


FIG.15

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| TYPE OF MAIN DATA (ORIGINAL/COPY) | RF LEVEL "L" | RF LEVEL "H" |
|--------------------------------------|--------------|--------------|
| ORIGINAL | 0 | 1 |
| COPY | 1 | 0 |

FIG.16

| TYPE OF MAIN DATA (ORIGINAL/COPY) | DATA PORTION FOR RECORDING SUB DATA |
|--------------------------------------|--|
| ORIGINAL | DATA PORTION SUCH THAT ALL-0 IS FOLLOWED BY ALL-0 IN 8-BIT DATA BEFORE EFM |
| COPY | DATA PORTION SUCH THAT ALL-0 IS FOLLOWED BY ALL-1 IN 8-BIT DATA BEFORE EFM |

FIG.17

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| TYPE OF MAIN DATA (ORIGINAL/COPY) | SUB CODE AREA OF EACH FRAME |
|--------------------------------------|-----------------------------|
| ORIGINAL | PATTERN A |
| COPY | PATTERN B |

FIG.18

| TYPE OF MAIN DATA (ORIGINAL/COPY) | SUB DATA EMBEDDING PATTERN (—→ "1" - - - - -→ "0") |
|--------------------------------------|--|
| ORIGINAL | "H" — — - - - "L" - - - - - — - - - |
| COPY | "H" - - - - - "L" — — — — — |

FIG.19

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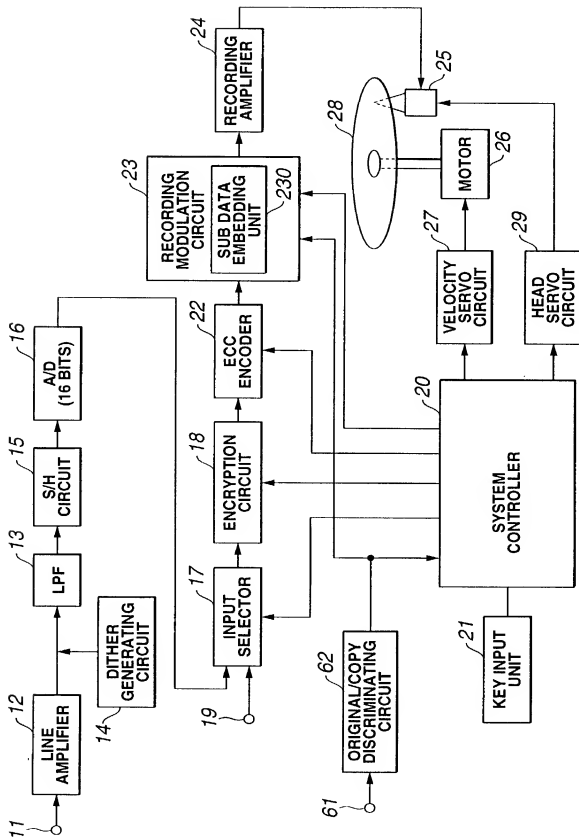


FIG.20

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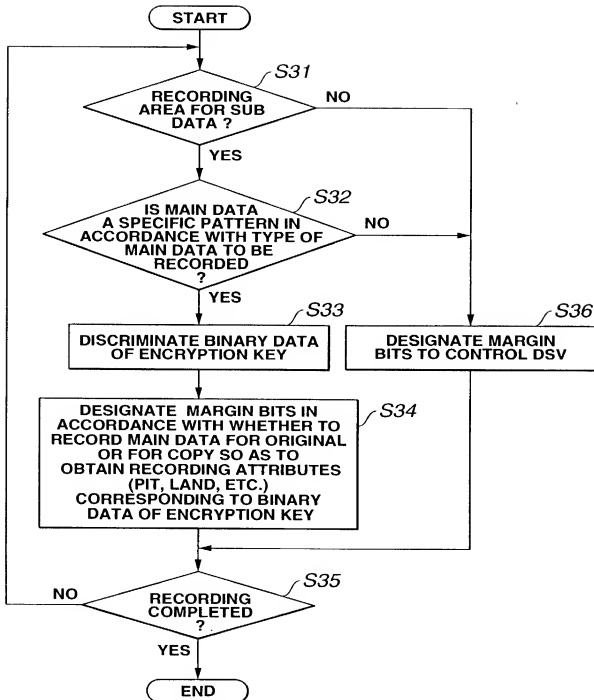


FIG.21

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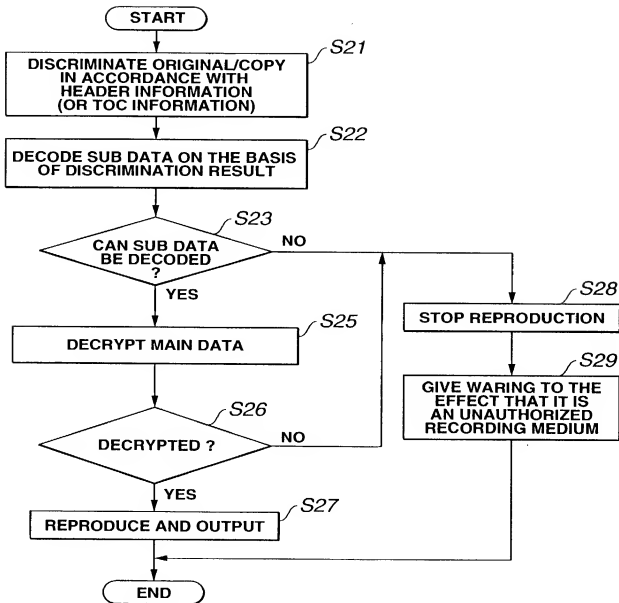


FIG.22

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| TYPE | SUB DATA EMBEDDING PATTERN (—→ "1" ----→ "0") |
|---------------|---|
| ORIGINAL ROM | "H" — — — — — "L" ---- — — — — |
| ORIGINAL R/RW | "H" — — — — — "L" ---- — — — — |
| COPY ROM | "H" ---- ---- ---- — "L" — — — — — |
| COPY R/RW | "H" ---- ---- ---- — "L" — — — — — |

FIG.23